

**COMPLETE SAMPLE DELIVERY GROUP FILE (CSF)  
EVIDENCE AUDIT CHECKLIST  
U.S. Environmental Protection Agency - Region 8  
Environmental Services Division, Multi-Media Branch  
Analytical Operations Section**

Audit Number: 08-12-08  
Date CSF Received: 12/3/07  
Received By: Caryl Beard  
Date of Audit: 12/10/07  
Audited By: Caryl Beard  
Resubmitted CSF? Yes ☐ No ☒  
Lab Name: A-4 Scientific, Inc.  
Lab Location: The Woodlands, TX

Site Name: Richardson Flat Tailing  
Site Manager: Kathryn Hernandez  
RAS Number: 36948  
ULSA Number: \_\_\_\_\_  
SDG Number: MH23T6  
Number of Samples: 20/4/5  
CLP Lab Code: A-4

**AUDIT CHECKLIST**

CHAIN OF CUSTODY

- |                                                                                                                                                                               |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1. Custody Seal Present?                                                                                                                                                      | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 2. Condition of Seal? Intact <input checked="" type="checkbox"/> Signed <input checked="" type="checkbox"/> Broken <input type="checkbox"/> Unsigned <input type="checkbox"/> |                                                                     |
| 3. Chain of Custody Record(s) Present?                                                                                                                                        | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 4. Chain of Custody Record(s) Signed?                                                                                                                                         | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 5. Chain of Custody Record(s) Dated?                                                                                                                                          | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 6. Traffic Report(s) or Packing List(s) Present?                                                                                                                              | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 7. Traffic Report(s) or Packing List(s) Signed?                                                                                                                               | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 8. Airbill Present?                                                                                                                                                           | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 9. Airbill Number(s) <u>863198575033</u>                                                                                                                                      |                                                                     |
| 10. Airbill Signed?                                                                                                                                                           | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 11. Airbill Dated?                                                                                                                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 12. Sample Tags Present?                                                                                                                                                      | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 13. Should Sample Tags be Present?                                                                                                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

AUDIT NUMBER: 08-12-08

FORM DC-2

14. Form DC-2 Present?  
15. Numbering Scheme on Form DC-2 Correct?  
16. Enclosed Documents Listed?  
17. Listed Documents Enclosed?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

FORM DC-1

18. Form DC-1 Present?  
19. Form DC-1 Complete?  
20. Form DC-1 Correct?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

DOCUMENT CONTROL

21. Laboratory Documents Complete?  
22. Laboratory Documents Legible?  
23. Original Documents Included in CSF?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

DATA INSPECTION

4. Form I's present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?  
5. Forms 2 through 8 (VOC & SVOC), Forms 2 through 10 (Pesticides), Forms 2 through 14 (Metals & Cyanide) present?  
6. Raw data present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?  
7. Percent Solids Form present for soil samples?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

TE: If items 1, 3, 4, 6, 7, 8, 12, 14, 18, or 22 are missing, corrective action measures must be taken by the CSF auditor and summarized below.

AUDIT NUMBER: 08-12-08

COMMENTS AND NOTES:

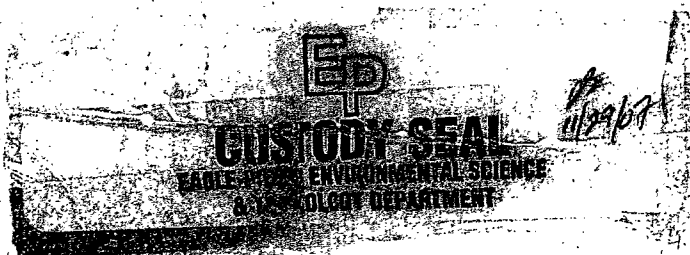
Candace Bemp 12/10/07

Auditor

Date

EPA OFFICIAL SEALS PAGE

Please attach all custody seals below:



AUDIT NUMBER: 08-12-08

EPA CLP ELECTRONIC DISKETTE(S)

CASE #: 36948 SDG #: MH23T6

SITE NAME: Richardson Flat Tailings

RPM: Kathryn Hernandez

DATE: 12/10/07

AUDITOR: Calvin Bm

Audit # 08-12-08

RAS # 36948

SDG - MH23T6

Site - Richardson Flat

RPM - Kathryn Hernandez

Date - 12/10/07

LAB - A-4

## USEPA-CLP

## COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057  
Lab Code: A4 Case No: 36948 NRAS No.: \_\_\_\_\_ SDG No: MH23T6  
SOW No.: ILM05.4

## EPA Sample No.

## Lab Sample ID

MH23T6	0008706-11
MH23T7	0008706-12
MH23T8	0008706-13
MH23T9	0008706-14
MH23W0	0008706-15
MH23W1	0008706-16
MH23W2	0008706-17
MH23W3	0008706-18
MH23W4	0008706-19
MH23W5	0008706-20
MH24B1	0008706-01
MH24B2	0008706-02
MH24B3	0008706-03
MH24B3D	0008706-03D
MH24B3S	0008706-03S
MH24B4	0008706-04
MH24B5	0008706-05
MH24B6	0008706-06
MH24B7	0008706-07
MH24B8	0008706-08

Were ICP-AES and ICP-MS interelement corrections applied?

(Yes/No)

ICP-AES

ICP-MS

YES

YES

Were ICP-AES and ICP-MS background corrections applied?

(Yes/No)

YES

YES

If yes, were raw data generated before application of background corrections?

(Yes/No)

NO

NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Reddy Pakanati

Name:

REDDY PAKANATI

Date:

11/29/07

Title:

LABORATORY MANAGER

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## USEPA-CLP

## COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057  
Lab Code: A4 Case No: 36948 NRAS No.: \_\_\_\_\_ SDG No: MH23T6  
SOW No.: ILM05.4

EPA Sample No.

Lab Sample ID

MH24B90008706-09MH24C00008706-10

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	<u>YES</u>	<u>YES</u>
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	<u>YES</u>	<u>YES</u>
If yes, were raw data generated before application of background corrections?	(Yes/No)	<u>NO</u>	<u>NO</u>

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Reddy PakanatiName: REDDY PAKANATIDate: 11/29/07Title: LABORATORY MANAGER0000000002

**A4 SCIENTIFIC, INC.**

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

**Contract #: EPW06057****Case #: 36948****SDG #: MH23T6****SDG NARRATIVE****SAMPLE RECIEPT & LOGIN**

The following samples were received on the dates listed against them. The samples were logged in for analysis as listed.

EPA SAMPLE #	LAB SAMPLE #	DATE/TIME RECEIVED	AIRBILL NO.	ANALYSIS	Total # of Containers Received	REMARKS	MATRIX
MH23T6	0008706-11	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23T7	0008706-12	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23T8	0008706-13	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23T9	0008706-14	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23W0	0008706-15	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23W1	0008706-16	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23W2	0008706-17	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23W3	0008706-18	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23W4	0008706-19	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23W5	0008706-20	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH24B1	0008706-01	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH24B2	0008706-02	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH24B3	0008706-03	11/9/07 09:43	863198575033	ICP-AES	1	MS/DUP	SOIL
MH24B4	0008706-04	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH24B5	0008706-05	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH24B6	0008706-06	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH24B7	0008706-07	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH24B8	0008706-08	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH24B9	0008706-09	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH24C0	0008706-10	11/9/07 09:43	863198575033	ICP-AES	1		SOIL

ICP-AES

**Issue:** Samples for case 36948 were received on 11/9/2007. TR/COC listed tag numbers do not match physical tag numbers.

**Resolution:** Per Region 8 Lab recorded the physical sample tag number on form DC-1 and proceeded with analysis of samples.

**Issue:** For samples received on 11/9, there was no temperature blank in the cooler. The cooler temperatures were determined to be 4 degrees for both coolers received. The following method was used to record cooler temperature. Lab removed ice between two sample containers and placed thermometers between them and stabilized for several minutes. The thermometer was not allowed to come in contact with any material except sample containers. The temperature of the shipping container was recorded on the TR/COC and form DC-1.

**Resolution:** Per direction from Region 8, the laboratory, proceed with the analysis of the samples.

**Issue:** There were no custody seals on any of the coolers.

**Resolution:** Per Region 8, proceed with the analysis of the samples.

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# A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW06057

Case #: 36948

SDG #: MH23T6

## SDG NARRATIVE

**Issue:** The lab received 121 samples in 5 coolers. There were 2 samples designated for lab QC in each cooler. The lab has a total of 6 SDG, and 10 QC samples designated. Lab confirmed if both designated Lab QC's were to be analyzed or if lab was to select only one per SDG.

**Resolution:** Per Region 8, the laboratory selected one of the designated samples for laboratory QC per SDG and proceeded with analysis of samples.

Lab selected sample MH24B3 and notified SMO.

SMO was notified. Directive is enclosed. No other discrepancies of issues were noted during receipt and login.

### ICP-AES

Soil Samples were digested by Hot-Block technique (HS2) and analyzed using a Thermo Electron ICAP6500.

MS and DUP were performed on sample "MH24B3". Selenium recovery was low. Post-digestion spike was performed.

Analytes with Serial Dilution percent difference not within the control limits are flagged with "E" on Form1s and Form8.

The following equations are used for calculation of sample results from raw instrument output data:

### ICP-AES

#### SOIL Samples:

$$\text{Concentration (dry Wt.) (mg/kg)} = \frac{C * V}{W * S} * DF$$

Where,

C = Concentration (mg/L)

V = Final sample volume in Liters (L) (0.1L)

W = Wet sample weight (kg) (0.001kg)

S = % solids/100

DF = Dilution Factor

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SAMPLE LOG-IN SHEET

Lab Name <b>A4 SCIENTIFIC, INC.</b>				Page <b>2</b> of <b>2</b>	
Received By (Print Name) <b>Larry Goodsen</b>				Log-in Date <b>11-9-07</b>	
Received By (Signature) <i>Larry Goodsen</i>					
Case Number <b>36948</b>		Sample Delivery Group No. <b>MH2431</b>		NRAS Number <b>2</b>	
Remarks:		Corresponding			
		EPA Sample #	Aqueous Sample pH	Sample Tag #	Assigned Lab #
1. Custody Seal(s) <b>Present/Absent*</b> <b>Intact/Broken</b>		<b>MH2431</b>	<b>NA</b>	<b>8242419</b>	<b>0008706-01</b> <b>Intact 1-24 lock bag</b>
2. Custody Seal Nos. <b>N/A</b>		<b>B2</b>		<b>8250389</b>	<b>-02</b>
3. Traffic Reports/Chain of Custody Records or Packing Lists <b>Present/Absent*</b>		<b>B3</b>		<b>8250390</b>	<b>-03</b>
4. Airbill <b>Airbill/Sticker Present/Absent*</b>		<b>B4</b>		<b>8242415</b>	<b>-04</b>
5. Airbill No. <b>8659857533</b>		<b>B5</b>		<b>8242414</b>	<b>-05</b>
6. Sample Tags <b>Present/Absent*</b>		<b>B6</b>		<b>8242416</b>	<b>-06</b>
Sample Tag Numbers <b>11-12-07</b> <b>Listed/Not Listed on Traffic Report/Chain of Custody Record</b>		<b>B7</b>		<b>8309995</b>	<b>-07</b>
7. Sample Condition <b>Intact/Broken*/Leaking</b>		<b>B8</b>		<b>8250378</b>	<b>-08</b>
8. Cooler Temperature Indicator Bottle <b>Present/Absent*</b>		<b>B9</b>		<b>8242411</b>	<b>-09</b>
9. Cooler Temperature <b>4°C</b>		<b>MH2430</b>		<b>8309992</b>	<b>-010</b>
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree? <b>Yes/No*</b>					
11. Date Received at Lab <b>11/9/07</b>					
12. Time Received <b>9:43</b>					
Sample Transfer					
Fraction <b>MHS</b>	Fraction				
Area # <b>Cooler</b>	Area #				
By <b>JS</b>	By				
On <b>11/9/07</b>	On				

\* Contact SMO and attach record of resolution

Reviewed By <b>JS</b>	Logbook No. <b>NA</b>
Date <b>11/12/07</b>	Logbook Page No. <b>1000000005</b>

SAMPLE LOG-IN SHEET

Lab Name <b>A4 SCIENTIFIC, INC.</b>				Page <b>2</b> of <b>2</b>	
Received By (Print Name) <b>Larry Goodsen</b>				Log-in Date <b>11-9-07</b>	
Received By (Signature) <i>[Signature]</i>					
Case Number <b>36948</b>		Sample Delivery Group No. <b>MH23T6</b>			NRAS Number <b>1</b>
Remarks:			Corresponding		Remarks: Condition of Sample Shipment, etc.
	EPA Sample #	Aqueous Sample pH	Sample Tag #	Assigned Lab #	
1. Custody Seal(s)	Present/Absent* <u>Intact/Broken</u>	<b>MH23T6</b>	<b>PA</b>	<b>8311907</b>	<b>0008906-011</b> <b>Intact 1-Ziplock Bag</b>
2. Custody Seal Nos.	<u>N/A</u>	<b>T7</b>		<b>8311935</b>	<b>-012</b>
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent* <u>Present</u>	<b>T8</b>		<b>8311911</b>	<b>013</b>
4. Airbill	Airbill/Sticker Present/Absent* <u>Present</u>	<b>T9</b>		<b>8311905</b>	<b>014</b>
5. Airbill No.	<b>86319857</b> <b>5033</b>	<b>MH23T6</b>		<b>8311934</b>	<b>019</b>
6. Sample Tags	Present/Absent* <u>Present</u>	<b>M1</b>		<b>8311903</b>	<b>016</b>
Sample Tag Numbers <b>11/2/07</b>	Listed/Not Listed on Traffic Report/Chain of Custody Record <u>Listed</u>	<b>M2</b>		<b>8311909</b>	<b>017</b>
7. Sample Condition	Intact/Broken*/Leaking <u>Intact</u>	<b>M3</b>		<b>8311906</b>	<b>018</b>
8. Cooler Temperature Indicator Bottle	Present/Absent* <u>Present</u>	<b>M4</b>		<b>8311910</b>	<b>019</b>
9. Cooler Temperature	<b>40C</b>	<b>M5</b>		<b>8311902</b>	<b>020</b>
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree?	Yes/No* <u>Yes</u>				
11. Date Received at Lab	<b>11-9-07</b>				
12. Time Received	<b>9:43</b>				
Sample Transfer					
Fraction <b>M+S</b>	Fraction				
Area # <b>Cooler A</b>	Area #				
By <b>[Signature]</b>	By				
On <b>11/9/07</b>	On				<b>11/12/07</b>

\* Contact SMO and attach record of resolution

Reviewed By <b>OS</b>	Logbook No. <b>NA</b>
Date <b>11/12/07</b>	Logbook Page No. <b>1</b>

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME <u>A4 SCIENTIFIC, INC.</u>	
CITY/STATE <u>THE WOODLANDS, TX</u>	
CASE NO. <u>36948</u>	SDG NO. <u>MH24B1</u>
SDG NOS. TO FOLLOW <u>NA</u>	
NRAS NO. <u>NA</u>	
CONTRACT NO. <u>EPW05057</u>	
SOW NO. <u>ILM05.4</u>	

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

	PAGE NOS.		LAB	CHECK REGION
	FROM	TO		
1. Cover Page	<u>1</u>	<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. SDG Narrative	<u>3</u>	<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. Sample Log-In Sheet (DC-1)	<u>5</u>	<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Inventory Sheet (DC-2))	<u>7</u>	<u>8</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5. Traffic Report/Chain of Custody Record(s)	<u>9</u>	<u>11</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inorganic Analysis				
6. Data Sheet (Form I-IN)	<u>12</u>	<u>31</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. Initial & Continuing Calibration Verification (Form IIA-IN)	<u>32</u>	<u>42</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8. CROL Standard (Form IIB-IN)	<u>43</u>	<u>50</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9. Blanks (Form III-IN)	<u>51</u>	<u>57</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10. ICP-AES Interference Check Sample (Form IVA-IN)	<u>58</u>	<u>65</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11. ICP-MS Interference Check Sample (Form IVB-IN)	<u>NA</u>	<u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Matrix Spike Sample Recovery (Form VA-IN)	<u>66</u>	<u>66</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13. Post-Digestion Spike Sample Recovery (Form VB-IN)	<u>67</u>	<u>67</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
14. Duplicates (Form VI-IN)	<u>68</u>	<u>68</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
15. Laboratory Control Sample (Form VII-IN)	<u>69</u>	<u>69</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	<u>70</u>	<u>70</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
17. Method Detection Limits (Annually) (Form IX-IN)	<u>71</u>	<u>73</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	<u>74</u>	<u>74</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	<u>75</u>	<u>75</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	<u>76</u>	<u>76</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21. Preparation Log (Form XII-IN)	<u>77</u>	<u>77</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22. Analysis Run Log (Form XIII-IN)	<u>78</u>	<u>83</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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	PAGE NOS.		CHECK	
	FROM	TO	LAB	REGION
23. ICP-MS Tune (Form XIV-IN)	NA	NA	✓	—
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	↓	↓	✓	—
25. ICP-AES Raw Data	84	740	✓	✓
26. GFAA Raw Data (If Applicable)	NA	NA	✓	—
27. ICP-MS Raw Data	↓	↓	✓	—
28. Mercury Raw Data	↓	↓	✓	—
29. Cyanide Raw Data	↓	↓	✓	—
30. Preparation Logs Raw Data	741	782	✓	✓
31. Percent Solids Determination Log	783	784	✓	✓
32. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments <u>1</u> )	785	785	✓	✓
Sample Tags	786	792	✓	✓
Sample Log-In Sheet (Lab)	793	794	✓	✓
33. Misc. Shipping/Receiving Records				
(list all individual records)				
Telephone Logs	NA	NA	✓	—
Custody Logbook	↓	↓	✓	—
NA	↓	↓	✓	—
34. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
Custody Logbook	795	795	✓	✓
NA	NA	NA	✓	—
35. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records <u>Digestion log</u>	741	742	✓	✓
Analysis Records <u>Runlog</u>	743	754	✓	✓
Description <u>Standard prep log</u>	755	782	✓	✓
36. Other Records (describe or list)				
Telephone Communications Log	NA	NA	✓	—
Emails	796	802	✓	✓
NA	NA	NA	✓	—

37. Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ 23 11/29/07

Completed by: Jessica Schulze Jessica Schulze sample Custodian 11/29/07  
 (CLP Lab) (Signature) (Print Name & Title) (Date)

Audited by: Carl Bm Carl Bm 12/10/07  
 (USEPA) (Signature) (Print Name & Title) (Date)

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 ILM05.4

# SAMPLE DELIVERY GROUP (SDG) COVER SHEET

SDG Number: MH23T6-Revised

☒ ICP-AES Analysis

☐ ICP-MS Analysis

Laboratory Name: A4 SCIENTIFIC, INC.

Laboratory Code: A4

Contract No.: EPW06057

Case No.: 36948

Analysis Price: \_\_\_\_\_

SDG Turnaround: 21 days

Modified Analysis (if applicable):

Modification Reference No.: \_\_\_\_\_

## EPA Sample Numbers in SDG (Listed in Numerical Order)

1) MH23T6	7) MH23W2	13) MH24B3	19) MH24B9
2) MH23T7	8) MH23W3	14) MH24B4	20) MH24C0
3) MH23T8	9) MH23W4	15) MH24B5	21)
4) MH23T9	10) MH23W5	16) MH24B6	22)
5) MH23W0	11) MH24B1	17) MH24B7	23)
6) MH23W1	12) MH24B2	18) MH24B8	24)

MH23T6

First Sample in SDG

11/09/2007

First Sample Receipt Date

MH24C0

Last Sample in SDG

11/09/2007

Last Sample Receipt Date

**Note:** There are a maximum of 20 **field** samples [excluding Performance Evaluation (PE) Samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Jessica Schup  
Signature

11/12/07  
Date



USEPA Contract Laboratory Program  
Inorganic Traffic Report & Chain of Custody Record

Case No: 36948  
DAS No: 3 T6 28  
SDG No: MH2 4B7 11/9/07 L

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	<b>Chain of Custody Record</b>		Sampler Signature: <i>CL Hay</i>	<b>For Lab Use Only</b> Lab Contract No: EPW06057 Unit Price: <i>0</i> Transfer To: <i>2</i> Lab Contract No: <i>2</i> Unit Price: <i>11/9/07</i>	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 Chris Hayes	11/6/07 8AM	Janna Simonsen		11/6/07
	2 Janna Simonsen	11/8/07 11AM			
	3				
4			<i>J. Schuler 11/9/07 943</i>		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH24B1	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG161 (1)	UE05-50-0.5	S: 11/2/2007 10:55	00081706-01	Intact
MH24B2	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG162 (1)	UE05-RR-0.5	S: 11/2/2007 12:45	-02	
MH24B3	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG163 (1)	UE06-50-0.5	S: 11/2/2007 10:45	-03	
MH24B4	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG164 (1)	UE07-50-0.5	S: 11/2/2007 10:30	-04	
MH24B5	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG165 (1)	UE07-50-1.0	S: 11/2/2007 10:35	-05	
MH24B6	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG166 (1)	UE08-50-0.5	S: 11/2/2007 10:10	-06	
MH24B7	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG167 (1)	UE09-50-0.5	S: 11/2/2007 10:10	-07	
MH24B8	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG168 (1)	UE10-50-0.5	S: 11/2/2007 10:35	-08	
MH24B9	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG169 (1)	UE11-50-0.5	S: 11/2/2007 10:45	-09	
MH24C0	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG170 (1)	UE12-50-0.5	S: 11/2/2007 11:00	-010	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MH24A3, MH24B3	Additional Sampler Signature(s): <i>28</i> 11/9/07	Cooler Temperature Upon Receipt: 50°C	Chain of Custody Seal Number: 11/9/07
Analysis Key: TM = CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <i>4</i>	Shipment Iced? <i>4</i> 11/9/07

TR Number: 8-065602925-110707-0005

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
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LABORATORY COPY



USEPA Contract Laboratory Program  
Inorganic Traffic Report & Chain of Custody Record

Case No: 36948  
DAS No:  
SDG No: MH23T6

L

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	Chain of Custody Record		Sampler Signature: <i>Ch H</i>	For Lab Use Only Lab Contract No: EPW06057 Unit Price: <i>0</i> Transfer To: <i>2</i> Lab Contract No: <i>2</i> Unit Price: <i>11/9/07</i>	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 Chris Hayes	11/6/07 8AM	Janna Simonsen		11/6/07
	2 Janna Simonsen	11/8/07 11AM			
	3				
4		J. Schuler	11/9/07 943		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH23T6	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG106 (1)	UW07-47-0.5	S: 11/1/2007 8:55	0008706 -011	Intact
MH23T7	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG107 (1)	UW10-47-0.5	S: 11/1/2007 12:15	-012	
MH23T8	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG108 (1)	UW12-47-0.5	S: 11/1/2007 11:55	-013	
MH23T9	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG109 (1)	UW13-47-0.5	S: 11/1/2007 9:10	-014	
MH23W0	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG110 (1)	UW15-47-0.5	S: 11/1/2007 11:00	-015	
MH23W1	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG111 (1)	UW20-47-0.5	S: 11/1/2007 9:50	-016	
MH23W2	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG112 (1)	UW25-47-0.5	S: 11/1/2007 10:15	-017	
MH23W3	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG113 (1)	UW27-47-0.5	S: 11/1/2007 11:05	-018	
MH23W4	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG114 (1)	UW34-47-0.5	S: 11/1/2007 10:35	-019	
MH23W5	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG115 (1)	UW37-47-0.5	S: 11/1/2007 14:05	-020	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MH23T1, MH23T9	Additional Sampler Signature(s): <i>11/9/07</i>	Cooler Temperature Upon Receipt: 32	Chain of Custody Seal Number: <i>11/9/07</i>
Analysis Key: TM = CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <i>N/A</i>	Shipment Iced? <i>Y</i>

TR Number: 8-065602925-110707-0001

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